

**STATE OF ILLINOIS  
ILLINOIS COMMERCE COMMISSION**

<b>Commonwealth Edison Company</b>	)	
	)	<b>ICC Docket No. 16-0420</b>
<b>Approval of the Energy Efficiency and Demand</b>	)	
<b>Response Plan Pursuant to Section 8-103(f)</b>	)	
<b>of the Public Utilities Act</b>	)	

**DIRECT TESTIMONY OF R. NEAL ELLIOTT, PH.D., P.E.**

**REACT EX. 2.01**

**Professional Experience****Senior Director for Research, American Council for an Energy-Efficient Economy, 1993 to present**

Coordinates ACEEE's overall research efforts, manages research and program staff, and conducts research on industrial and agricultural energy efficiency and combined heat and power (CHP). Was a senior associate, from 1995-2008, and a research associate, from 1993-1995. Prepares analyses of industrial energy use, efficiency potential and technology development, and proposals of policies to promote greater efficiency. An internationally-recognized expert and author on energy efficiency, energy efficiency programs and policies, electric motor systems, CHP and clean distributed energy, and analysis of energy efficiency and energy markets. Develops government and private sector initiatives on CHP, and is the past president, past board and executive committee member, and past chair of the Legislative Policy Committee of the US CHP Association. A frequent speaker at domestic and international conferences. Research areas of interest include:

- Industrial energy efficiency technologies, programs and policies
- Combined heat and power (CHP) and distributed energy
- Energy markets (including natural gas, oil, coal and electricity)
- Intelligent efficiency

**Senior Engineering Project Manager, North Carolina Alternative Energy Corporation, 1986 to 1993**

Responsibility in the Agricultural and Industry Program areas including work with the furniture, textile and wood products manufacturing, and produce and poultry industries. Of particular note are the nationally- recognized poultry lighting retrofit activities and produce-cooling, annual-thermal-storage demonstration. Team leader on a \$1 million agricultural thermal storage demonstration project. Developed the concept and oversaw the establishment of the Industrial Electrotechnology Laboratory, a demonstration and technical assistance facility located at North Carolina State University. Served as engineering project manager from 1986 to 1987 before being promoted.

**Adjunct Assistant Professor, Department of Textile Engineering, Chemistry and Science, North Carolina State University, 1991 to 1992**

Participated in research activities, lectured to textile engineering students, advised textile engineering students on their senior projects and served as a resource to graduate students.

**Adjunct Assistant Professor, Department of Civil and Environmental Engineering, Duke University, 1986 to 1992**

Taught engineering analysis course, participated in research activities.

**Education**

Ph.D. in Civil and Environmental Engineering Duke University, 1986

Dean's Fellow, College of Engineering, 1983

MS in Mechanical Engineering, North Carolina State University, 1981

BS in Mechanical Engineering, North Carolina State University, 1978

## **Selected Publications**

*Automated Diagnostics and Analytics for Buildings*, contributed forward and a chapter.

*Louisiana's 2030 Energy Efficiency Roadmap: Saving Energy, Lowering Bills, and Creating Jobs*. 2013. ACEEE.

*Ohio's Energy Efficiency Resource Standard: Impacts on the Ohio Wholesale Electricity Market and Benefits to the State*. 2013. ACEEE.

*A Defining Framework for Intelligent Efficiency*. 2012. ACEEE.

*The Long-Term Energy Efficiency Potential: What the Evidence Suggests*. 2012. ACEEE.

*Avoiding a Train Wreck: Replacing Old Coal Plants with Energy Efficiency*. 2011. ACEEE.

*Where Have All the Data Gone? The Crisis of Missing Energy Efficiency Data*. 2010. ACEEE.

*Energy Efficiency in the American Clean Energy and Security Act of 2009: Impacts of Current Provisions and Opportunities to Enhance the Legislation*. 2009. ACEEE.

*Industrial Energy Efficiency Programs: Identifying Today's Leaders and Tomorrow's Needs*. 2009. ACEEE.

*Trends in Industrial Investment Decision Making*. 2008. ACEEE.

## **Professional Accomplishments**

Member Board of Directors for the Southeast Energy Efficiency Alliance

Member Advisory Board Industrial Energy Technology Conference, 15-year service award

Recipient of the 2014 Industrial Energy Technology Conference Energy Award

US Combined Heat and Power Association, 2003 Combined Heat and Power Champion

International District Energy Association, 1999 Chairman's Award

Licensed Professional Engineer in North Carolina, Seal No. 14483